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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/813,851	. 08/04/2004	Chuck W. Plevich	H00062391060	8250
128	7590 03/22/2006		EXAM	INER
HONEYWEI	LL INTERNATIONAL I	FRISTOE JI	FRISTOE JR, JOHN K	
	101 COLUMBIA ROAD P O BOX 2245		ART UNIT	PAPER NUMBER
	MORRISTOWN, NJ 07962-2245			
			DATE MAILED: 03/22/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Comments	10/813,851	PLEVICH ET AL.				
Office Action Summary	Examiner	Art Unit				
	John K. Fristoe Jr.	3751				
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the o	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING ID.  - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period.  - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 03 F	ebruary 2006.					
	s action is non-final.					
,						
closed in accordance with the practice under						
Disposition of Claims						
4)⊠ Claim(s) <u>1,3-5 and 21</u> is/are pending in the ap	oplication.					
4a) Of the above claim(s) is/are withdra		•				
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1,3-5 and 21</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/	or election requirement.					
Application Papers						
_	or.					
9) The specification is objected to by the Examin		to by the Evaminer				
10)⊠ The drawing(s) filed on <u>04 August 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correct						
11) ☐ The oath or declaration is objected to by the E	examiner. Note the attached Office	ACTION OF TOTAL				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreig  a) ☐ All b) ☐ Some * c) ☐ None of:		)-(d) or (f).				
1. Certified copies of the priority documen		ion No				
2. Certified copies of the priority documer						
3. Copies of the certified copies of the price		ed in this National Stage				
application from the International Burea		ad				
* See the attached detailed Office action for a lis	t of the certified copies not receive	eu.				
Attachment(s)						
1) Motice of References Cited (PTO-892)	4) Interview Summary	γ (PTO-413)				
Notice of Draftsperson's Patent Drawing Review (PTO-948)  Paper No(s)/Mail Date						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08	5) \( \bigcup \) Notice of Informal F \( 6 \bigcup \) Other: \( \bigcup_{} \).	datent Application (PTO-152)				
Paper No(s)/Mail Date  S. Patent and Trademark Office						
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#### **DETAILED ACTION**

## Response to Arguments

1. Applicant's arguments with respect to claims 1, 3-5, and 21 have been considered but are moot in view of the new ground(s) of rejection. Since the changes to the prior art rejections were necessitated by Applicant's amendment the instant Office has been made final.

## Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Pat. No. 6,634,377 (Stafford) in view of U.S. Pat. No. 5,706,851 (Lopez-Gomez et al.). Stafford discloses a method of repairing a worn regulator valve that includes a housing (110) having an initial passage (105) of a first cross-sectional diameter, an initial poppet (12) including at least a surface disposed within the initial passage (105), removing (col. 5, lines 49-50) the initial poppet (105) from the housing (110), boring the initial passage (105) so as to create an enlarged passage (col. 5, lines 50-53), providing a replacement poppet (col. 5, lines 58-60), wherein the replacement poppet has a first surface (left side of element 32 in figure 5A) and a second surface (the right side of element 32 in figure 5A), and wherein the valve has a regulator section (32) but lacks providing a replacement poppet with an enlarged diameter. Lopez-Gomez et al. teach a method of repairing a worn regulator valve comprising the steps of reaming the internal surface of the housing thus increasing its internal diameter (col. 4, lines 9-11) and providing a

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corresponding large diameter in order to reestablish the necessary close tolerances. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the method of repairing a worn regulator valve of Stafford by replacing the worn regulator valve with a replacement valve with an enlarged diameter as taught by Lopez-Gomez et al. in order to reduce the umber of parts required to repair the worn regulator valve by eliminating the valve sleeve.

4. Claim 4 is rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Pat. No. 6,634,377 (Stafford) in view of U.S. Pat. No. 5,706,851 (Lopez-Gomez et al.) as applied to claim 1 above, and further in view of U.S. Pat. No. 5,725,007 (Stubbs). Stafford modified above, discloses a method of repairing a worn regulator valve that includes a housing (110) having an initial passage (105) of a first cross-sectional diameter, an initial poppet (12) including at least a surface disposed within the initial passage (105), removing (col. 5, lines 49-50) the initial poppet (105) from the housing (110), boring the initial passage (105) so as to create an enlarged passage (col. 5, lines 50-53), providing a replacement poppet (col. 5, lines 58-60), wherein the replacement poppet has a first surface (left side of element 32 in figure 5A) and a second surface (the right side of element 32 in figure 5A), wherein the valve has a regulator section (32), and replacing the worn regulator valve with a larger diameter regulator valve but lacks the poppet being made of stainless steel. Stubbs teaches a valve assembly comprising a poppet (26) made of stainless steel (col. 6, lines 34-35). It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the method of repairing a worn valve of Stafford by using a poppet made of stainless steel as taught by Stubbs in order for the poppet to resist wear.

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Claims 5 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Pat. 5. No. 6,634,377 (Stafford) in view of U.S. Pat. No. 5,706,851 (Lopez-Gomez et al.) as applied to claim 3 above, and further in view of engineering expedient. Stafford modified above, discloses a method of repairing a worn regulator valve that includes a housing (110) having an initial passage (105) of a first cross-sectional diameter, an initial poppet (12) including at least a surface disposed within the initial passage (105), removing (col. 5, lines 49-50) the initial poppet (105) from the housing (110), boring the initial passage (105) so as to create an enlarged passage (col. 5. lines 50-53), providing a replacement poppet (col. 5, lines 58-60), wherein the replacement poppet has a first surface (left side of element 32 in figure 5A) and a second surface (the right side of element 32 in figure 5A), wherein the valve has a regulator section (32), wherein the replacement poppet (12) and the tapered regulator section (32) are made from a unitary piece, and replacing the worn regulator valve with a larger diameter regulator valve but lacks the tapered section being at an angle between 6.5 and 7.5 degrees. One of ordinary skill in the art of valve design would manufacture the valve poppet with a tapered section that would regulate the amount of fluid passing through the valve at a rate necessary for the environment the valve is placed. It would have been obvious to one of ordinary skill in the art at the time the invention was made to modify the method of repairing a worn regulator valve of Stafford by manufacturing the valve having a tapered at an angle between 6.5 and 7.5 degrees as an engineering expedient in order to regulate the flow of fluid through the valve at a certain rate.

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### Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John K. Fristoe Jr. whose telephone number is (571) 272-4926. The examiner can normally be reached on Monday-Friday, 7: 00 a.m-4: 30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Justine R. Yu can be reached on (571) 272-4835. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

EDWARD K. LOOK SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER, 3700

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

John K. Fristoe Jr.

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Examiner

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**JKF**